

Amendments To the Claims:

Please amend the claims as shown. Applicants reserve the right to pursue any cancelled claims at a later date.

1.-19. (cancelled)

20. (new) A method for updating information in an AAA (Authentication, Authorization, Accounting) server system, comprising:

regularly sending an updating message by a first AAA server of the AAA server system to all the other AAA servers of the AAA server system, wherein the updating message comprises information about changes, which have taken place since a previous updating message, of a status of subsets of an address pool which are assigned to the first AAA server;

performing an estimation of logical addresses which will be issued in a time period between the updating message which is about to be sent and a next-following updating message, in the first AAA server, before the updating message is sent; and

determining further subsets of the address pool, which are assigned to the first AAA server, wherein from the further subsets the logical addresses are taken, which, according to the estimation, will be issued in the time period, and wherein

the updating message further comprises information about which of the further subsets have been determined.

21. (new) The method in accordance with claim 20, wherein the estimation is made by forming the product of the maximum rate at which the AAA server can process requests for the issue of a logical address and the time period between the updating message which is about to be sent and the next-following updating message.

22. (new) The method in accordance with claim 20, further comprising:

checking by the first AAA server whether the subsets of the address pool which will be issued according to the estimate are available; and

if the result of the checking by the first AAA server is negative, assigning a subset of an address pool assigned to another AAA server to the first AAA server.

23. (new) The method in accordance with claim 21, further comprising:

checking by the first AAA server whether the subsets of the address pool which will be issued according to the estimate are available; and

if the result of the checking by the first AAA server is negative, assigning a subset of an address pool assigned to another AAA server to the first AAA server.

24. (new) The method in accordance with claim 20, wherein in the event of the failure of the first AAA server, the subsets of the address pool which are assigned to the first AAA server are assigned to a second AAA server.

25. (new) The method in accordance with claim 21, wherein in the event of the failure of the first AAA server, the subsets of the address pool which are assigned to the first AAA server are assigned to a second AAA server.

26. (new) The method in accordance with claim 24, wherein the second AAA server is determined according to a priority list of AAA servers.

27. (new) The method in accordance with claim 20, wherein, if the first AAA server fails, the further subsets of the address pool will not be used for the issuing of logical addresses, at least for a period of time, and wherein the subsets of the address pool which are assigned to the first AAA server are assigned to a second AAA server.

28. (new) The method in accordance with claim 20, wherein, if the first AAA server fails, the further subsets of the address pool will not be used for the issuing of logical addresses, at least for a period of time, wherein the subsets of the address pool which are assigned to the first AAA server are assigned to a second AAA server, and wherein the second AAA server is determined according to a priority list of AAA servers.

29. (new) The method in accordance with claim 27, wherein the length of the time period is determined using a maximum permissible connection time.

30. (new) The method in accordance with claim 20, further comprising:

rebooting a second AAA server; and  
transmitting a multicast message to all the other AAA servers of the AAA server system  
by the second AAA server, wherein  
the multicast message requests the dispatch of updating messages and the assignment of  
subsets of the address pool to the first AAA server.

31. (new) The method in accordance with claim 21, further comprising:

rebooting a second AAA server; and  
transmitting a multicast message to all the other AAA servers of the AAA server system  
by the second AAA server, wherein  
the multicast message requests the dispatch of updating messages and the assignment of  
subsets of the address pool to the first AAA server.

32. (new) The method in accordance with claim 22, further comprising:

rebooting a second AAA server; and  
transmitting a multicast message to all the other AAA servers of the AAA server system  
by the second AAA server, wherein  
the multicast message requests the dispatch of updating messages and the assignment of  
subsets of the address pool to the first AAA server.

33. (new) The method in accordance with claim 24, further comprising:

rebooting a second AAA server; and  
transmitting a multicast message to all the other AAA servers of the AAA server system  
by the second AAA server, wherein  
the multicast message requests the dispatch of updating messages and the assignment of  
subsets of the address pool to the first AAA server.

34. (new) The method in accordance with claim 20, wherein the TCP/IP protocol, the RADIUS protocol or the DIAMETER protocol is used as the transport protocol for the communication of updating messages.

35. (new) The method in accordance with claim 21, wherein the TCP/IP protocol, the RADIUS protocol or the DIAMETER protocol is used as the transport protocol for the communication of updating messages.

36. (new) The method in accordance with claim 22, wherein the TCP/IP protocol, the RADIUS protocol or the DIAMETER protocol is used as the transport protocol for the communication of updating messages.

37. (new) The method in accordance with claim 24, wherein the TCP/IP protocol, the RADIUS protocol or the DIAMETER protocol is used as the transport protocol for the communication of updating messages.

38. (new) An AAA (Authentication, Authorization, Accounting) server system, comprising:

- a pool of logical addresses;

- a plurality of AAA servers for administrating the pool of logical addresses; and

- a plurality of disjoint subsets of the address pool, wherein

- each of the disjoint subsets is assigned to exactly one AAA server, and wherein

- the logical addresses of each of the subsets are assigned to a terminal device only by the exactly one AAA server.